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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,766	10/29/2003	Trevor MacDougall	WEAT/0379	6665	
75	90 06/01/2006		EXAM	INER	
William P. Patterson, Esq.			NGUYEN, TU T		
MOSER, PATTERSON & SHERIDAN, LLP Suite 1500			ART UNIT	PAPER NUMBER	
3040 Post Oak Boulevard			2877		
Houston, TX 77056			DATE MAILED: 06/01/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Tu Figure   Art Unit   2877	Office Action Summary		pplication No. Applicant(s)						
Tu T. Nguyen 2877  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER.IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  In the state of time may be available under the provision 43 LOR 1.36(a). In one went, however, may a reply be timely filled after SIX (b) MONTH'S from the mailing date of this communication.  If IN Operiod to reply is appelled above, the mainimum statutory period will apply and will expire SIX (b) MONTH'S from the mailing date of this communication.  Failure to reply within the set or extended above, the mainimum statutory period will apply and will expire SIX (b) MONTH'S from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133), Any reply recover by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any cannot plant turn adjustment. See 37 CFR 1.704(b).  Status  1)  Responsive to communication(s) filled on 09 March 2006.  2a)  This action is FINAL. 2b) This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-27 is/are pending in the application.  5)  Claim(s) 1-28 is/are allowed.  6)  Claim(s) 25-27 is/are rejected.  7)  Claim(s) 25-27 is/are rejected to.  8)  Claim(s) 25-27 is/are rejected to.  9)  The specification is objected to by the Examiner.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 29 October 2003 is/are: a) accepted or b) objected to by the Examiner.  Application Papers  10)  The oath or declaration is objected to by the Examiner. Note the attached Of				MACDOUGALL, TREVOR					
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application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	a)								
			•						
Attachment(s)	Attachmen	t(s)		,					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)	1) 🔲 Notic	e of References Cited (PTO-892)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)									
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:			·	atent Application (F 10+192)					

Application/Control Number: 10/696,766

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamate et al (2003/0234921).

With respect to claim 25, Yamate discloses an apparatus for detecting Bragg grating 40 (fig 2) reflected and backscattered signals 22 (fig 1). The apparatus comprises: a laser tunable 30 (fig 2) (paragraph [0043]), an optical cable 36 (fig 2) coupled to the laser, a Bragg grating sensor 40 (fig 2), a plurality of sensors (paragraph [0052]) are disposed within a single interrogator 32 or 28 (fig 2) (paragraph [0046]).

Yamate does not explicitly disclose the claimed point sensing circuit and distributed sensing circuit. Since applicant does not explicitly claim the function of the sensing circuits, it would have been obvious that Yamate's sensors could be called a point sensing circuit and a distributed sensing circuit.

With respect to claim 26, Yamate discloses using a large diameter optical waveguide (paragraph [0045]).

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With respect to claim 27, Yamate discloses an optical fiber Bragg grating sensor (paragraph [0045]).

### Allowable Subject Matter

Claims 1-24 are allowed.

Claims 1-24 are allowed for reasons of arguments presented by the applicant in the amendment letter received on 03/09/2006.

#### Response to Arguments

Applicant's arguments filed o3/09/2006 have been fully considered but they are not persuasive.

With respect to Applicant's argument on claim 25-27, refer to discussion above.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu T. Nguyen whose telephone number is (571) 272-2424. The examiner can normally be reached on T-F 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley Jr. can be reached on (571) 272-2800 Ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tu T. Nguyen
Primary Examiner
Art Unit 2877